



China Data Institute

chinadatacenter.net
China-data-online.org

Introduction to China Data Online and China Data Lab

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Most Challenges for China Data Studies

- ❑ **Availability**
- ❑ **Accessibility**
- ❑ **Comparability**

Principals for Spatial Data Design

Principals:

- **Comprehensive** data coverage
- **Comparable** spatio-temporal data structure
- **Compatible** multi-source data structure
- **Consistent** multi-scale data structure



The Principles of China Data Design

- Authority**
- Completion**
- Uniqueness**

China Data Sources



- **Government Statistics**
 - Provincial Statistics (1949 -)
 - City Statistics (1996 -)
 - County Statistics (1997 -)
- **Population Census**
 - Census 1953
 - Census 1964
 - Census 1982
 - Census 1990
 - Census 2000/2010 (province, city, county, township, GRID)
- **Economic Census**
 - Industrial Census 1995 (province, city, county, ZIP)
 - Basic Unit Census 2001 (province, city, county, ZIP)
 - Economic Census 2004/2008 (province, city, county, ZIP)
- **Establishments** (more than 7 millions companies and organizations)
- **Geography and Environment**
 - Land Use data
 - Night-Time data
- **Base Maps**
 - 2000
 - 2010
 - 2000-2010

Population Census Data with GIS Maps

> 2,000 demographic variables in population Census

Geographical Levels:

Country
|
Province
|
Prefecture
|
County
|
Township
|
1 sq km Grid

Census data variables:

- General Information
- Nationalities
- Age Structure
- Household Structure
- Education
- Fertility
- Deaths
- Marriage
- Migration
- Housing Status
- Industries and Occupations

Economic Census Data

> Cover about 900 economic sectors with more than 7 million business units

Industries

- 852 industries

Products

- 3 primary products

Ownerships

- 23 different industries

Revenue

- 15 revenue ranges

Employment

- 10 employment ranges

Employment

1

1-19

20-49

50-99

100-499

500-999

1000-4999

5000-29999

30000-49999

50000+

Revenue

(in 10,000 Yuan)

0-30

30---50

50---100

100--300

300--500

500--1000

1000-3000

3000-5000

5000-10000

10000-30000

30000-50000

50000-100000

100000-150000

150000-200000

200000 and over

Business Unit Classification

2004, 2008 & 2013 Business and Private Units 单位数与个体经营户数

	2004		2008		2013	
	(in 10,000)	(%)	(in 10,000)	(%)	(in 10,000)	(%)
1. Legal Unit 法人单位	516.9	100	709.9	100	1085.7	100
Enterprise 企业法人	325	62.9	495.9	69.9	820.8	75.6
Government 机关、事业法人	90	17.4	95.9	13.5	103.7	9.6
Non-profit org 社会团体法人	101.9	19.7	118.1	16.6	161.1	14.8
2. Economic Unit 产业活动单位	682.4	100	886.4	100	1303.5	100
Manufacture 第二产业	167.5	24.6	230	25.9	287.5	22.1
Service 第三产业	514.9	75.4	656.4	74.1	1015.9	77.9
3. Private 个体经营户	3921.6	100	2873.7	100	3279.1	100
Manufacture 第二产业	588.7	15	253.8	8.8	188.3	5.7
Service 第三产业	3332.9	85	2619.9	91.2	3090.8	94.3

Industrial Classification (18 Categories)

行业分类	Industrial Classification
1. 农、林、牧、渔业	1. Farming, Forestry, Animal Husbandry and Fishery
2. 采矿业	2. Mining and Quarrying
3. 制造业	3. Manufacturing
4. 电力、燃气及水的生产和供应业	4. Production and Distribution of Electric Power, Gas and Water
5. 建筑业	5. Construction
6. 交通运输、仓储和邮政业	6. Transport, Storage and Post
7. 信息传输、计算机服务和软件业	7. Information Transmission, Computer Services and Software
8. 批发和零售业	8. Wholesale and Retail Trade
9. 住宿和餐饮业	9. Hotel and Restaurants
10. 金融业	10. Financial Intermediation
11. 房地产业	11. Real Estate
12. 科学研究、技术服务和地质勘查业	12. Scientific Research, Technical Service and Geologic Prospecting
13. 水利、环境和公共设施管理业	13. Management of Water Conservancy, Environ. and Public Facilities
14. 居民服务和其他服务业	14. Services to Households and Other Services
15. 教育	15. Education
16. 卫生、社会保障和社会福利业	16. Health, Social Security and Social Welfare
17. 文化、体育和娱乐业	17. Culture, Sports and Entertainment
18. 公共管理和社会组织	18. Public Management and Social Organization

Industrial Classification: (2 digits)

7. 信息传输、计算机服务和软件业	Information Transmission, Computer Services and Software
电信和其他信息传输服务业	Telecommunications and Other Information Transfer Services
计算机服务业	Computer Services
软件业	Software Industry
8. 批发和零售业	Wholesale and Retail Trade
批发业	Wholesale
零售业	Retail Trade
9. 住宿和餐饮业	Hotel and Restaurants
住宿业	Hotel
餐饮业	Catering Services
10. 金融业	Financial Intermediation
银行业	Banking
证券业	Securities
保险业	Insurance
其他金融活动	Other Financial Activities
11. 房地产业	Real Estate
租赁和商务服务业	Leasing and Business Services
租赁业	Leasing Services
商务服务业	Business Services
12. 科学研究、技术服务和地质勘查业	Scientific Research, Technical Service and Geologic Prospecting
研究与试验发展	Research and Experimental Development
专业技术服务业	Professional Skill Services
科技交流和推广服务业	Services of Scientific and Technological Exchange and Popularization
地质勘查业	Geological Prospecting
13. 水利、环境和公共设施管理业	Management of Water Conservancy, Environ. and Public Facilities
水利管理业	Management of Water Conservancy
环境管理业	Management of Environment
公共设施管理业	Management of Public Facilities
14. 居民服务和其他服务业	Services to Households and Other Services
居民服务业	Resident Services
其他服务业	Other Services

Industrial Classification: (4 digits)

7. Information Transmission, Computer Services and Software 信息传输、计算机服务和软件业

7.1. 电信和其他信息传输服务业 Telecommunications and Other Information Transfer Services	7.1.1 固定电信服务	Fixed telecommunications services
	7.1.2 移动通信服务	Mobile telecommunications services
	7.1.3 其他电信服务	Other telecommunication services
	7.1.4 互联网信息服务	Internet Information Services
	7.1.5 有线广播电视传输服务	Cable television transmission services
	7.1.6 无线广播电视传输服务	Radio and TV transmission services
	7.1.7 卫星传输服务	Satellite transmission services
7.2. 计算机服务业 Computer Services	7.2.1 计算机系统服务	Computer system services
	7.2.2 数据处理	Data processing
	7.2.3 计算机维修	Computer maintenance
	7.2.4 其他计算机服务	Other computer services
7.3. 软件业 Software Industry	7.3.1 基础软件服务	Based software services
	7.3.2 应用软件服务	Application software services
	7.3.3 其他软件服务	Other software services

China Data Online: <http://china-data-online.com>

Statistical Database:

- Monthly Statistics
- National Statistics
- Provincial Statistics
- City Statistics
- County Statistics
- Monthly Industrial Data
- Yearly Industrial Data
- Statistics on Map
- Statistical Yearbooks

Census Database:

- Population Census 1982
- Population Census 1990
- Population Survey 1995, 2005
- Province Census 2000
- County Census 2000
- Economic Census 2004

The screenshot displays the homepage of China Data Online. The browser address bar shows the URL <https://www.china-data-online.com/>. The page features a navigation menu with links for Home, Data Products, Database Demo, Dictionary, Support, Contact, Q&A, Citations, My Account, and Logout. The main content area is organized into several sections:

- CHINA SPATIAL DATA**: Includes links for China Geo-Explorer II, China Geo-Explorer I, and China Map Library.
- CHINA STATISTICS**: Includes links for Monthly Statistics, National Statistics, Provincial Statistics, City Statistics, County Statistics, Monthly Industrial Data, Yearly Industrial Data, Statistics on Map, Statistical Datasheets, and Statistical Charts.
- CENSUS DATA**: Includes links for Census Maps, All Census Data, Economic Census 2004, Industrial Census 1995, Census 1982, Census 1982 (10%), Census 1990, Census 1995 (1%), Province 2000, County 2000, Census 2005 (1%), and Census Data Search.
- FREE CHINA MAPS**: Includes links for 2000 Population Census, Pop & Env (1990-1999), Pop & Env (2000), and Atlas of Industrial Census.
- SAMPLE DATA**: Includes links for Major Indicators, Industrial Surveys, Monthly Report, and Census Data.

On the right side of the page, there is a section titled "Investment in Fixed Assets for the First Ten Months of 2019" featuring a pie chart showing the distribution of investment across three sectors:

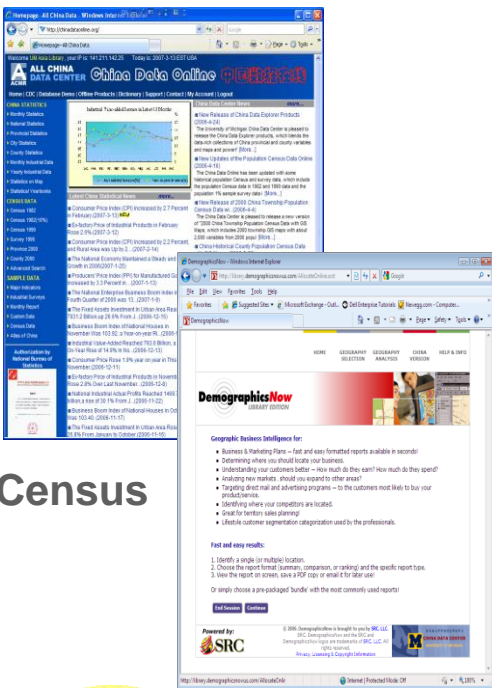
Industry	Percentage
Primary industry	2.23%
Secondary industry	29.76%
Tertiary industry	68.02%

Below the pie chart is a section titled "Latest China Statistical News" with several news items, including "Industrial Production Operation in October 2019 (11/15/2019)", "Total Retail Sales of Consumer Goods in October 2019 (11/15/2019)", "Investment in Fixed Assets for the First Ten Months of 2019 (11/15/2019)", "Producer Prices for the Industrial Sector for October 2019 (11/11/2019)", "Consumer Prices for October 2019 (11/11/2019)", "The Gross Imports and Exports Amounts 25.63Trillion Yuan in the First Ten Months... (11/8/2019)", and "Industrial Production Operation in September 2019 (10/21/2019)".

China Geo-Explorer

An Integration of Spatial Data and Analysis for China Studies

Statistics



The screenshot shows the 'ALL CHINA DATA CENTER' website. It features a navigation menu with categories like 'Home', 'About Us', 'Products', 'Services', and 'Contact Us'. The main content area displays several data points and reports, including 'China Data Online' and 'DemographicsNow'. A sidebar on the left lists various data sources and reports available for download or purchase.

Census



The graphics consist of three overlapping circles. The top-left circle is yellow and contains the text '中国历史级人口普查数据' (Historical Population Census Data) and 'ALL CHINA MARKETING RESEARCH CO., LTD.' with a barcode. The top-right circle is green and contains the text '中国2000县级人口普查资料' (China 2000 County Population Census) and 'ALL CHINA MARKETING RESEARCH CO., LTD.' with a barcode. The bottom circle is a map of China with various regions highlighted in different colors.

GIS

Data



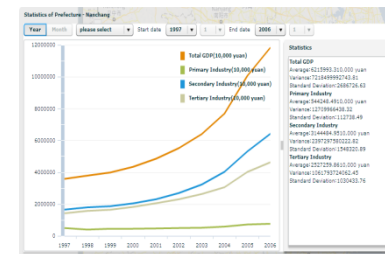
The screenshot shows the homepage of the 'Spatial Data Center & China Data Center' at the University of Michigan. It features a blue header with the university logo and name. The main content area includes a welcome message, a 'China Geo-Explorer II' section, and a 'US Geo-Explorer' section. The 'China Geo-Explorer II' section states: 'China Geo-Explorer (CGE) fully integrates different data sources from government statistics, population census and economics census of China at different levels (province, city, county, township and ZIP code) into a spatial system with more than 6,000 comparable variables for easy access.' The 'US Geo-Explorer' section states: 'US Geo-Explorer (UGE) fully integrates the population census and business data of the U.S. from different years at different levels (state, metropolitan, county, CCD, place, tract and block) into a spatial system with more than 40,000 comparable variables for easy access.'

Output

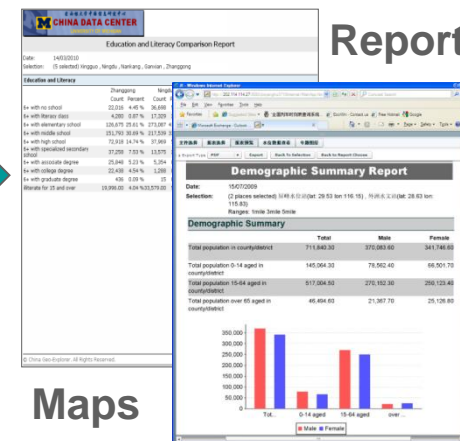


The screenshots show the user interfaces for 'China Geo-Explorer II' and 'US Geo-Explorer'. The 'China Geo-Explorer II' interface features a map of China with various regions highlighted in different colors. The 'US Geo-Explorer' interface shows a map of the United States with various states highlighted in different colors. Both interfaces include text describing the data sources and features of the systems.

Charts

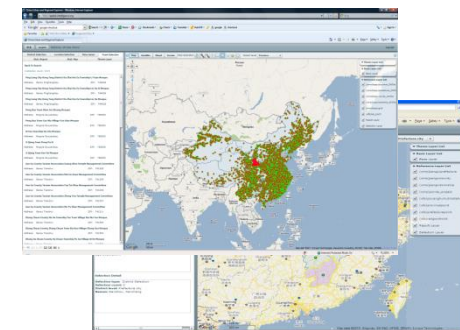


Tables



The screenshot shows a 'Demographic Summary Report' table. The table has columns for 'Total', 'Male', and 'Female'. The rows represent different demographic groups, including 'Total population in country/tract', 'Total population 0-14 aged in country/tract', and 'Total population over 65 aged in country/tract'. The data is presented in a clear, organized format.

Maps



The screenshot shows a map interface with a geographical map of China. The map is overlaid with various data points and layers, including a grid and colored regions. The interface includes a sidebar with various controls and a legend.

Unique Features of China Spatial Data

- ❑ The mostly complete collection in China's history
- ❑ Detailed data for nation, province, city, county, district and township
- ❑ Complete coverage for all provinces, cities, counties, and townships
- ❑ All data are comparable across time and region with the adjusted base map (2000, 2010)
- ❑ Most data in CGE are unique and not available in official publications
 - Population census data were compiled from the source data directly
 - Economic census data were compiled from the establishment data aggregated at province, city, county and ZIP level
 - All data have been integrated with GIS maps

Primary Functions

❑ Data Selection

- By administrative units (province, city, county, township)
- By groups
- By location (X&Y) and spatial range (km or miles)
- By time-series statistics (province, city and county)
- By establishments (province, city, county and ZIP)

❑ Reporting

- Summary report
- Comparison report
- Original data report

❑ Export

- Data tables (Excel)
- Reports (Excel, Word, PDF)
- GIS maps (Shape)
- Maps (PDF)

❑ Map Library with Metadata

- Pre-defined maps
- Easy links between maps of different spatial levels
- Easy links to related industries

China Geo-Explorer

**Administrative Units – Location – Chart – Time Series
– Establishment – GIS Map Export – Map Library**

The screenshot displays the China Geo-Explorer web application interface. The interface is divided into several sections:

- Base Year:** Radio buttons for 2000 (selected), 2010, and 2000-2010.
- Group:** Radio buttons for Single group (selected) and Multi-groups.
- Level:** Radio buttons for Province (selected), City, County, Town, and Any area.
- Region:** A navigation bar with buttons for Customized Report, Standard Report, and Upload your data.
- China (Province):** A list of provinces including Beijing, Fujian, and Gansu, with a 'Back to the Upper Level' button.
- Selection:** A list of provinces including Anhui, Chongqing, Henan, Hubei, Hunan, Jiangxi, and Shaanxi.
- Selection count:** A display showing 'Selection count: 10'.
- Map:** A map of China showing administrative boundaries. The map is zoomed in to show the central and eastern regions. The map is labeled with various cities and regions in Chinese and English. The map is currently set to 'Province' level.
- Operations:** A toolbar with various map navigation and interaction tools.

The Windows taskbar at the bottom shows the following icons: Windows Start button, File Explorer, Internet Explorer, Microsoft Store, Google Chrome, and Microsoft PowerPoint. The system tray on the right shows the time as 10:02 and the date as 2018/8/20.

Administrative Units

Administrative Unit X&Y Location Chart Time Series Establishment Theme Map GIS Map Export China-US Comparison Map Library Welcome, UM Asia Library! 中文 English Log out

Base Year: 2000 2010 2000-2010
 Group: Single group Multi-groups
 Level: Province City County Town Any area

Region Customized Report Standard Report Upload your data
 HTML PDF CSV Excel RTF ODT

6 index selected
 Report type Summary Report Compare Report Original Report
 Find:

- Census 2000
- Economic Census 2008
- Economic Census 2004
- Basic Unit Census 2001
- Industry Census 1995
- Land Use
- Nighttime lights

Operations Level: Province

Theme Layer List
 Basic Layer List
 Boundary Layer List

temp_report (43).xls [Compatibility Mode] - Excel

	Anhui	Beijing	Chongqing	Fujian	Gansu	Guangdong	Guangxi
2000 Total Population	58,999,948	13,569,194	30,512,763	34,097,947	25,124,282	85,225,007	43,854,538
2000 Urban Population	15,766,389	10,522,464	10,095,512	14,306,812	6,018,417	47,432,392	12,350,296
2000 Rural Population	43,233,559	3,046,730	20,417,251	19,791,135	19,105,865	37,792,615	31,504,242
2008 Number of All Units	204,959	267,757	139,006	232,466	94,260	617,717	154,443
2004 Number of All Units	230,706	262,847	137,536	226,827	135,138	567,862	194,852
2001 Total Industrial Units	177,879	245,599	89,639	155,771	82,817	400,227	121,763

report name

Location Analysis

Location Customized Report Standard Report

Spatial Range 1,3,5 Units miles kilometers

Label coord

1 Lat:30.658 Lon:117.461
2 Lat:30.692 Lon:118.413
3 Lat:30.942 Lon:117.813

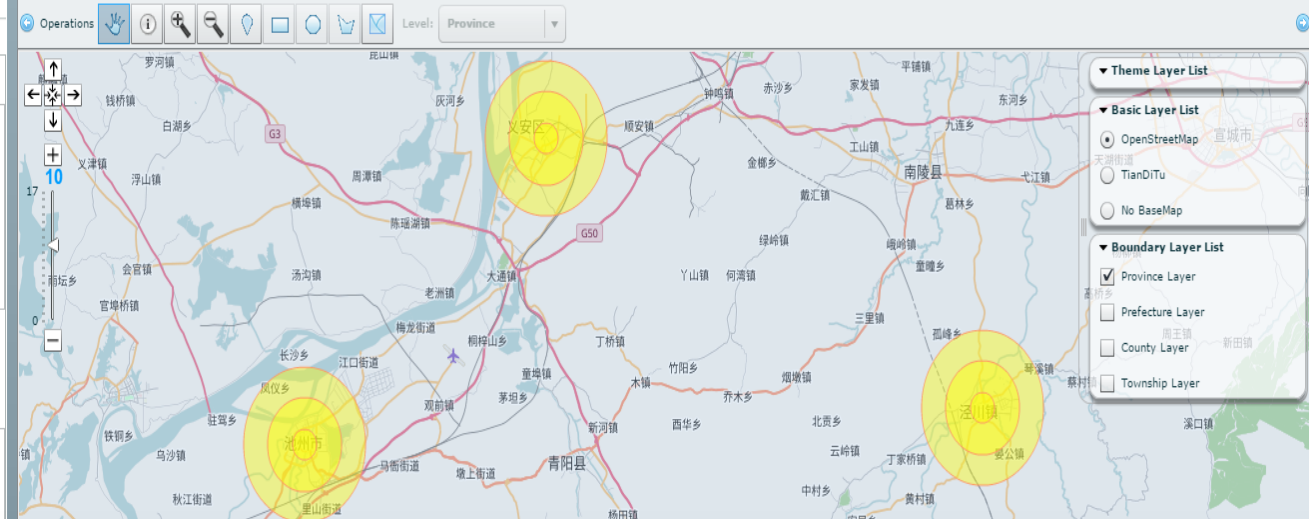
Lat 26.68

Lon 115.89

Add Edit Delete clear Upload

Select a layer:

None Province City County Town Zip point



- Census 2000
- Census 2010
- Economic Census 2008
- Economic Census 2004
- Basic Unit Census 2001
- Industry Census 1995
- Historic Census
- Land Use
- Nighttime lights

temp_report (44).xls [Compatibility Mode] - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW

Normal Page Break Page Custom Gridlines Headings Workbook Views Show Zoom 100% Zoom to Selection New Arrange Freeze Split View Side by Side Synchronous Scrolling Switch Windows Macros

Date: 10/05/2017

Selection: (3 places selected) 1(lat: 30.66 lon:117.48), 2(lat: 30.69 lon:118.41), 3(lat: 30.94 lon:117.81)

	1(1mile)		1(3mile)		1(5mile)		2(1mile)		2(3mile)		2(5mile)		3(1mile)		3(3mile)		3(5mile)	
	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
Total Households	10,138	100.0 %	28,607	100.0 %	36,184	100.0 %	3,028	100.0 %	15,875	100.0 %	26,695	100.0 %	7,858	100.0 %	78,632	100.0 %	108,056	100.0 %
Family Households	9,567	94.4 %	27,338	95.6 %	34,895	96.4 %	2,965	97.9 %	15,577	98.1 %	26,278	98.4 %	7,599	96.7 %	75,882	96.5 %	104,592	96.8 %
Collective Households	571	5.6 %	1,269	4.4 %	1,289	3.6 %	63	2.1 %	298	1.9 %	416	1.6 %	259	3.3 %	2,749	3.5 %	3,464	3.2 %
Total Population	32,165	100.0 %	91,631	100.0 %	116,927	100.0 %	9,032	100.0 %	47,822	100.0 %	81,098	100.0 %	23,920	100.0 %	240,247	100.0 %	331,988	100.0 %
Agricultural Population	7,976	24.8 %	37,043	40.4 %	61,278	52.4 %	3,740	41.4 %	24,657	51.6 %	48,581	59.9 %	4,879	20.4 %	44,347	18.5 %	93,164	28.1 %
Non-Agricultural Population	24,188	75.2 %	54,587	59.6 %	55,648	47.6 %	5,291	58.6 %	23,164	48.4 %	32,516	40.1 %	19,041	79.6 %	195,900	81.5 %	238,823	71.9 %
Population in Family Households	28,410	87.8 %	83,413	90.6 %	108,732	92.5 %	8,693	95.2 %	46,174	95.7 %	78,859	96.5 %	22,601	94.2 %	227,616	94.3 %	317,608	95.2 %

Charts Analysis (Structural Analysis)

Yearly Statistics Economic Census

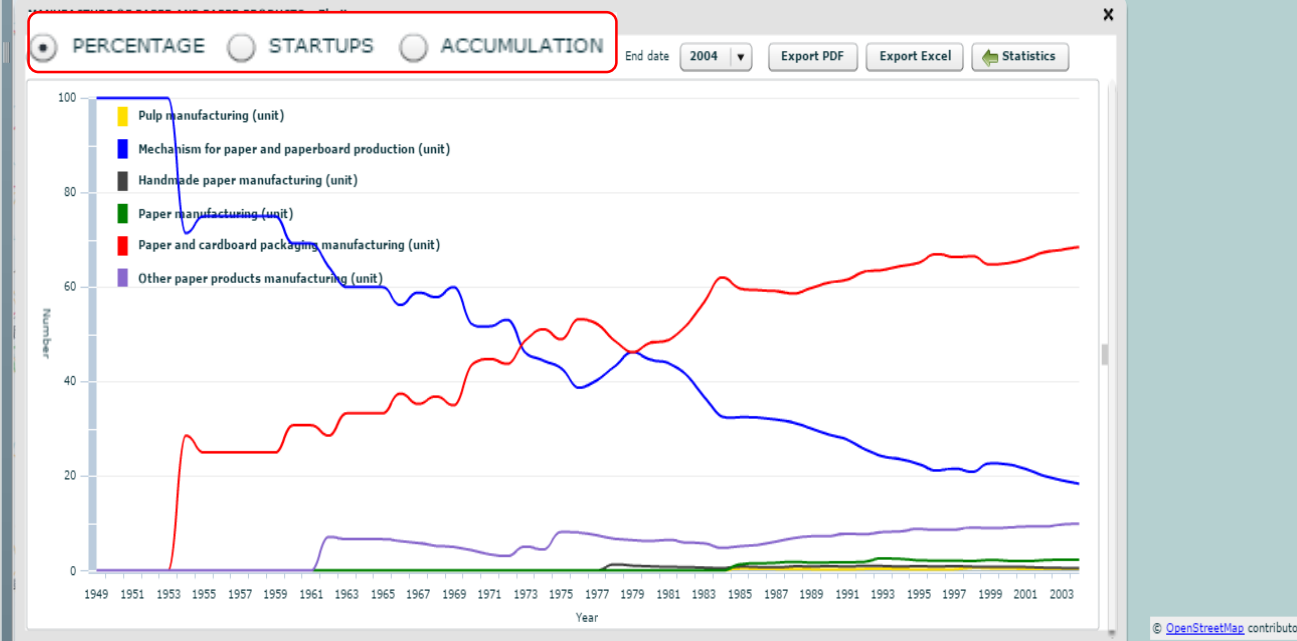
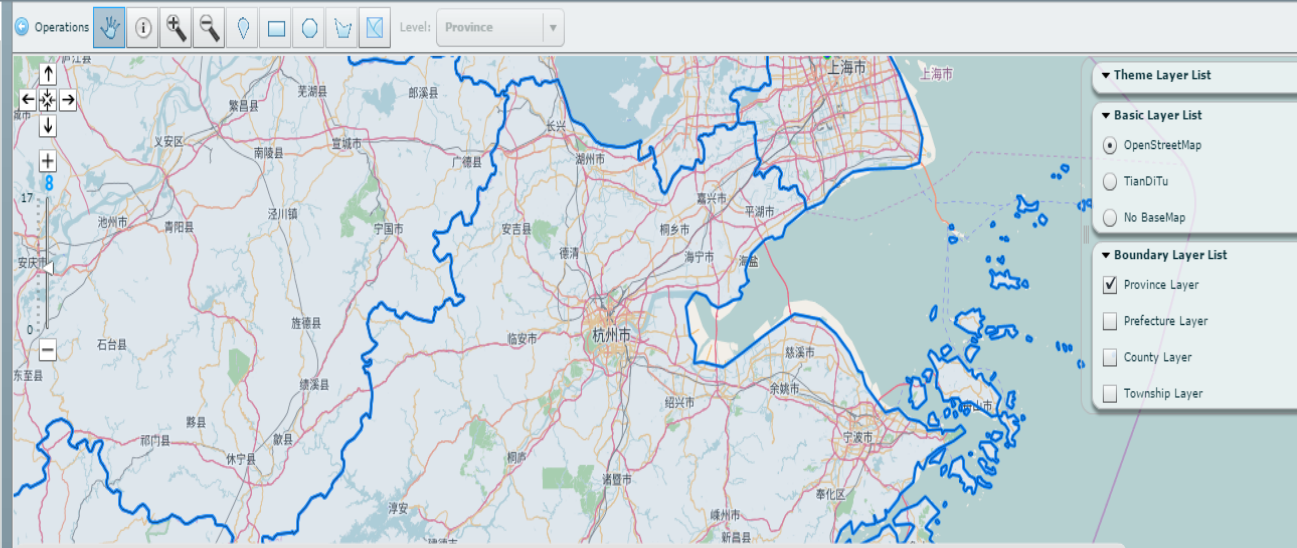
Statistical Chart

Nation Province City

Province Statistics

Nation Province City

- Region
- FORESTRY
 - Index
 - Region
- ANIMAL HUSBANDRY
 - Index
 - Region
- FISHERY
 - Index
 - Region
- FARMING, FORESTRY, ANIMAL HUSBANDRY AND FISHERY SERVICES
 - Index
 - Region
- MINING AND WASHING OF COAL
 - Index
 - Region
- EXTRACTION OF PETROLEUM AND NATURAL GAS
 - Index
 - Region
- MINING AND PROCESSING OF FERROUS METAL ORES
 - Index
 - Region
- MINING AND PROCESSING OF NON-FERROUS METAL ORES
 - Index
 - Region
- MINING AND PROCESSING OF NONMETAL ORES
 - Index
 - Region



Time Series Analysis

HTML PDF CSV Excel RTF ODT

Region **Year** **Customized Report**

Find:

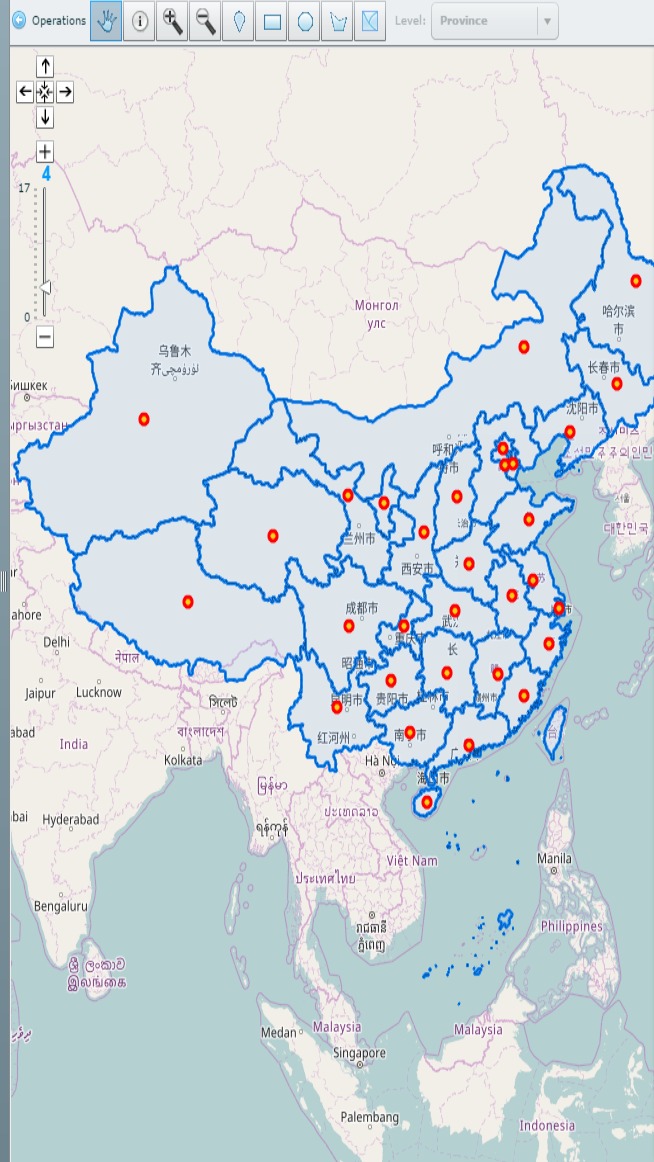
- GROSS DOMESTIC PRODUCTS
 - Gross Domestic Product(100 million yuan)
 - Primary Industry(100 million yuan)
 - Secondary Industry(100 million yuan)**
 - Industry(100 million yuan)
 - Construction(100 million yuan)
 - Tertiary Industry(100 million yuan)
 - Transportation Post and Telecommunications(100 million yuan)
 - Wholesale Retail and Catering Trade(100 million yuan)
 - Per- Capita GDP(yuan/person)
- INDICES OF GROSS DOMESTIC PRODUCTS (preceding year=100)
- GROSS DOMESTIC PRODUCTS BY EXPENDITURE APPROACH
- POPULATION
- EMPLOYMENT, STAFF AND WORKERS
- TOTAL INVESTMENT IN FIXED ASSETS

Add Remove clear

p1_Gross Domestic Product(100 million yuan)
 p2_Primary Industry(100 million yuan)
 p3_Secondary Industry(100 million yuan)

Including spatial lagged variables (X,W)

Distance: 1000 Units: miles kilometers



temp_report (45).xls [Compatibility Mode] - Excel

name	year	Gross Domestic Product(100 million yuan)	Primary Industry(100 million yuan)
1 Beijing	2008	10,488.0	112.8
2 Beijing	2007	9,353.3	101.3
3 Beijing	2009	12,153.0	118.3
4 Beijing	2010	14,113.6	124.4
5 Beijing	2011	16,251.9	136.3
6 Tianjin	2009	7,521.9	128.8
7 Tianjin	2010	9,224.5	145.6
8 Tianjin	2007	5,050.4	110.2
9 Tianjin	2008	6,354.4	122.6
10 Tianjin	2011	11,307.3	159.7
11 Hebei	2010	20,394.3	2,562.8
12 Hebei	2011	24,515.8	2,905.7
13 Hebei	2007	13,709.5	1,804.7
14 Hebei	2008	16,188.6	2,034.6
15 Hebei	2009	17,235.5	2,207.3
16 Shanxi	2008	6,938.7	302.5
17 Shanxi	2007	5,733.4	269.7
18 Shanxi	2009	7,358.3	477.6
19 Shanxi	2010	9,200.9	554.5
20 Shanxi	2011	11,237.5	641.4
21 Neimenggu	2010	11,672.0	1,095.3
22 Neimenggu	2011	14,359.9	1,306.3
23 Neimenggu	2007	6,091.1	762.1
24 Neimenggu	2008	7,761.8	907.0
25 Neimenggu	2009	9,740.2	929.6
26 Liaoning	2007	11,023.5	1,133.4
27 Liaoning	2008	13,461.6	1,302.0

Establishment

Selection | Report Table Export Plot of starting year

Back To Search Real Estate

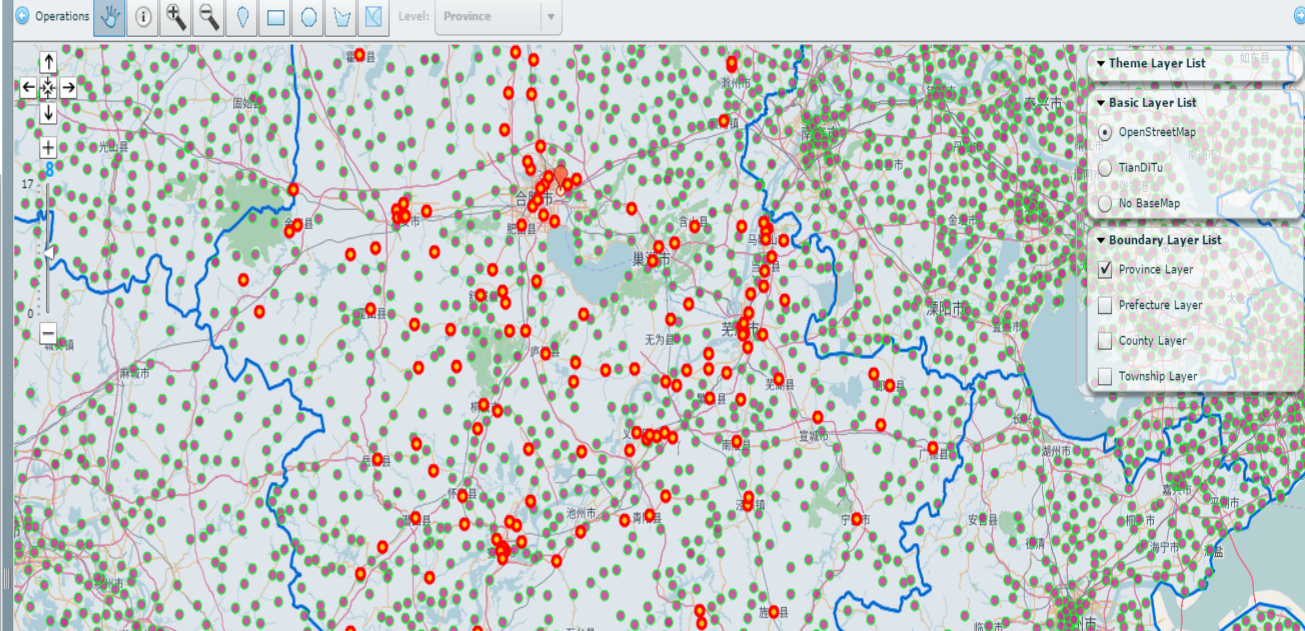
Number of Establishments: over 500

Keywords: Anhui

1 - 50 << < [1] [2] [3] [4] > >>

Anhui Di An Real Estate Development Company (Headquarter)	Address: Anhui Hefei	ZIP: 230011
Anhui Jinshui Real Estate Development Co., Ltd. (Headquarter)	Address: Anhui Hefei	ZIP: 230022
Hefei Gas House Development Management Company (Headquarter)	Address: Anhui Hefei	ZIP: 230041
Hefei Jia Le Zhi Ye Co., Ltd. (Headquarter)	Address: Anhui Hefei	ZIP: 230001
Anhui Zhong Medical College Labor Service Company (Headquarter)	Address: Anhui Hefei	ZIP: 230031
Hefei An Mei Real Estate Development Co., Ltd. (Headquarter)	Address: Anhui Hefei	ZIP: 230011
Hefei Bao He Qu Real Estate Development Company (Headquarter)	Address: Anhui Hefei	ZIP: 230041
Wuhu Shi You Estate Development Co., Ltd. (Headquarter)	Address: Anhui Wuhu	ZIP: 241000
Jin Xing Flannelette Chang Headquarter	Address: Anhui Wuhu	ZIP: 241000
Wuhu Xiang Yuan Industrial Group (Headquarter)	Address: Anhui Wuhu	ZIP: 241000
Wuhu Zhong Fang Estate Company (Headquarter)	Address: Anhui Wuhu	ZIP: 241000
Zhong Fang Group Wuhu Real Estate Development Company (Headquarter)	Address: Anhui Wuhu	ZIP: 241000
Wuhu Yang Zi Multiple Service Dept. (Headquarter)	Address: Anhui Wuhu	ZIP: 241000
Wuhu Wan Nan Hotel Headquarter		

1 - 50 << < [1] [2] [3] [4] > >>



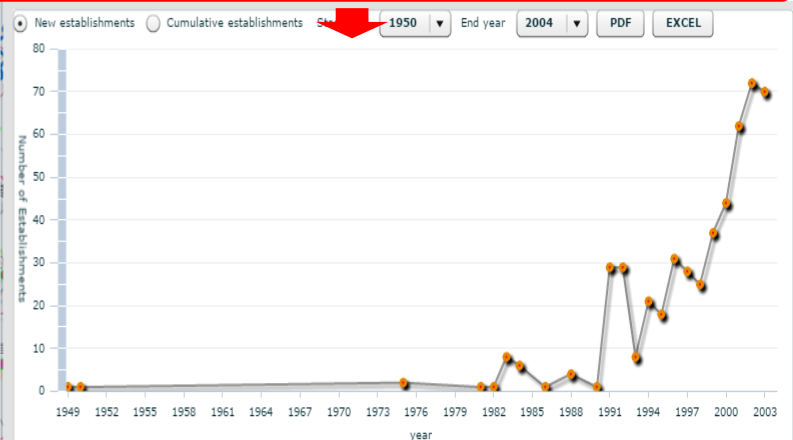
New establishments
 Cumulative establishments
 Start year **1950** End year **2004**
PDF EXCEL

name: Anhui Di An Real Estate Development Company (Headquarter)
 Responsible person: 曾三兰
 Type: Real Estate Multiple Development
 ZIP: 230011
 Address: Anhui Hefei Yao Hai Qu Chang Jiangdong Lu 115Hao
 Telephone: 0551-4415040
 Ownership: State-Own

Starting year: 1993

Revenue: 0-30
Employee Count: 1-19

[Google](#) [Baidu](#) [Wanfang Data](#)
[Go to Location Selection](#) [Close](#)



Panel Data for Spatial Modeling

Browser tabs: M Inbox (17,603) - sbao@ x | Geo-Explorer x | chinageoexplorer.org/c x | chinageoexplorer.org/r x | 141.211.24.149/SIServe x

Address bar: 141.211.24.149/SIServerResearch//tempReport/597336bd-e3a1-4a8e-8835-65619db5d2e9/temp_report.html

Time-series Report

Date: 19/08/2018

Selection: (4 selected) zhejiang , tianjin , y

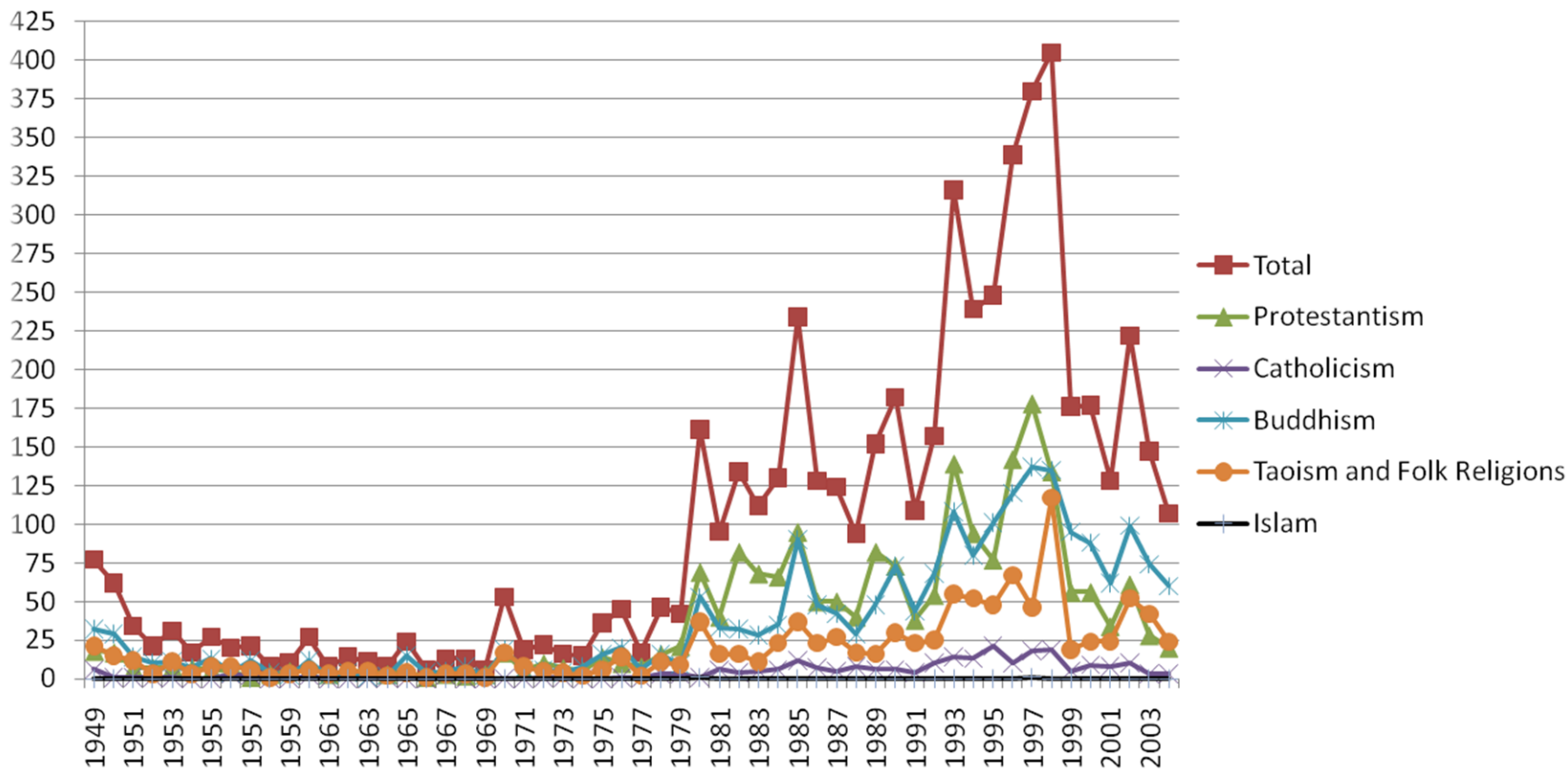
Original Variables

Spatially Weighted Variables

	name	year	Gross Domestic	Primary Industry	Secondary Industry	Gross Domestic	Primary Industry	Secondary Industry
1	tianjin	2009	7,521.9	128.8	3,987.8	15,159.8	1,324.7	7,640.2
2	tianjin	2010	9,224.5	145.6	4,840.2	18,081.4	1,526.9	9,226.2
3	tianjin	2006	4,344.3	118.2	2,488.3	9,570.7	918.0	4,939.7
4	tianjin	2007	5,050.4	110.2	2,892.5	11,455.6	1,050.3	5,902.5
5	tianjin	2008	6,354.4	122.6	3,821.1	13,626.3	1,241.1	7,117.9
6	tianjin	2011	11,307.3	159.7	5,928.3	21,441.7	1,762.1	10,970.9
7	zhejiang	2010	27,722.3	1,360.6	14,297.9	17,809.7	1,551.2	8,940.6
8	zhejiang	2011	32,318.8	1,583.0	16,555.6	21,163.0	1,798.8	10,653.4
9	zhejiang	2006	15,742.5	925.1	8,509.6	9,421.9	946.0	4,764.4
10	zhejiang	2007	18,780.4	986.0	10,148.5	11,259.4	1,083.4	5,669.9
11	zhejiang	2008	21,486.9	1,095.4	11,580.3	13,348.6	1,287.2	6,812.6
12	zhejiang	2009	22,990.3	1,163.1	11,908.5	14,943.3	1,347.8	7,377.5
13	yunnan	2010	7,224.2	1,108.4	3,223.5	12,753.8	1,372.5	6,304.8
14	yunnan	2011	8,893.1	1,411.0	3,780.3	15,398.3	1,639.1	7,734.8
15	yunnan	2006	3,981.3	749.8	1,712.6	6,481.9	835.0	3,042.2
16	yunnan	2007	4,741.3	837.4	2,051.1	7,801.2	985.9	3,683.3
17	yunnan	2008	5,700.1	1,020.9	2,451.1	9,276.7	1,187.1	4,471.8
18	yunnan	2009	6,169.8	1,067.6	2,582.5	10,583.4	1,190.0	5,030.8
19	xinjiang	2008	4,203.4	691.1	2,086.7	678.7	83.0	322.6
20	xinjiang	2006	3,045.3	527.8	1,459.3	465.3	60.3	205.6
21	xinjiang	2007	3,523.2	628.7	1,647.5	562.9	69.2	258.1
22	xinjiang	2009	4,277.1	759.7	1,929.6	761.3	85.6	356.0
23	xinjiang	2010	5,437.5	1,078.6	2,592.2	929.0	101.8	454.3
24	xinjiang	2011	6,610.1	1,139.0	3,225.9	1,138.1	114.8	592.0

Identification of Possible Policy Impacts

Annual Increment of Religious Organizations in Zhejiang (1949-2004)



China Data Lab



Participated by

China Data Institute 中国数据研究所 (chinadatacenter.net)

Center for Geographical Analysis, Harvard University 哈佛大学地理分析中心

All China Marketing Research, Ltd. 华通人信息技术有限公司

China Consortium for Finance and Economics Education 中国财经教育资源共享联盟 (knowledgeatshare.cn)

Business School, East China University of Science and Technology 华东理工大学商学院 (bs.ecust.edu.cn/bsweb2016en)

Geo-computation Center for Social Sciences, Wuhan University 武汉大学社会地理计算联合中心(www.lmars.whu.edu.cn/gcss/index.php/en)

Challenges for Data Research and Teaching

- **Data Sharing**

- Licensed data
- Restricted data
- Sensitive data
- Large size data
- Research data generated from different projects

- **Tool Sharing**

- Licensed and free tools
- Integrated environment for tools for data
- Maintenance and updates

- **Research Results Sharing (Differentiated training and teaching)**

- Research (**reproducible, replicable, generalizable**)
- Teaching (students with different interests and skills)
- Decision support (efficient, effective, and expandable)

Solution: Cloud Based Platform

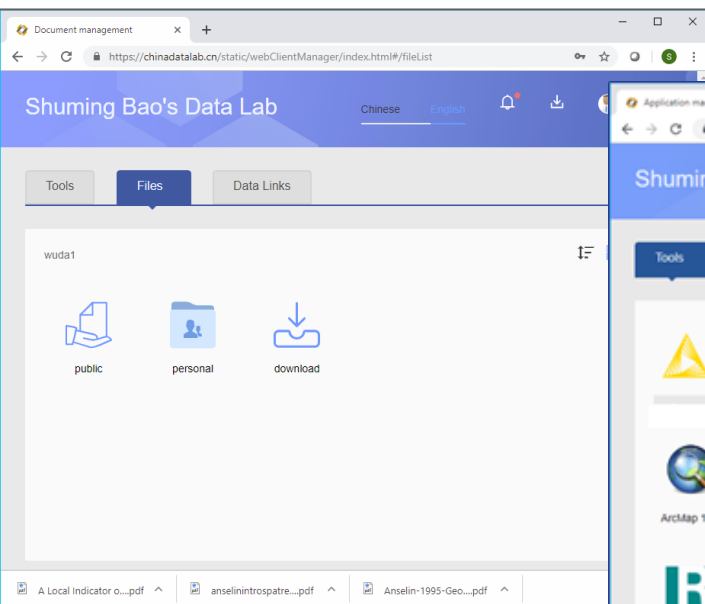
- ❑ **A data center** for China studies based on cloud
- ❑ **A research base** for collaborations on China studies
- ❑ **A development center** for data case studies
- ❑ **A training center** for China studies, including theory, methodology, technology, data and applications for research and teaching

An Integrated Platform for Research and Teaching

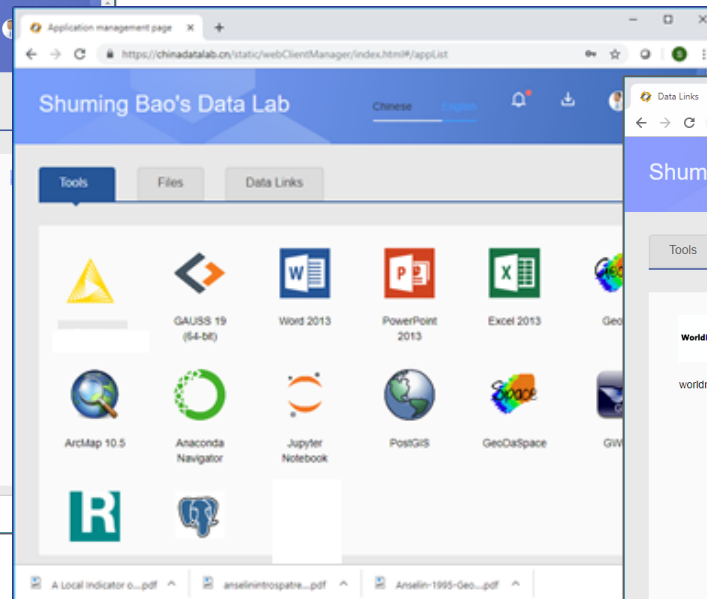
Main Features:

- ❑ Data available only on the cloud
- ❑ Tools available on the cloud
- ❑ All computation are on the cloud
- ❑ No maintenance required for end users

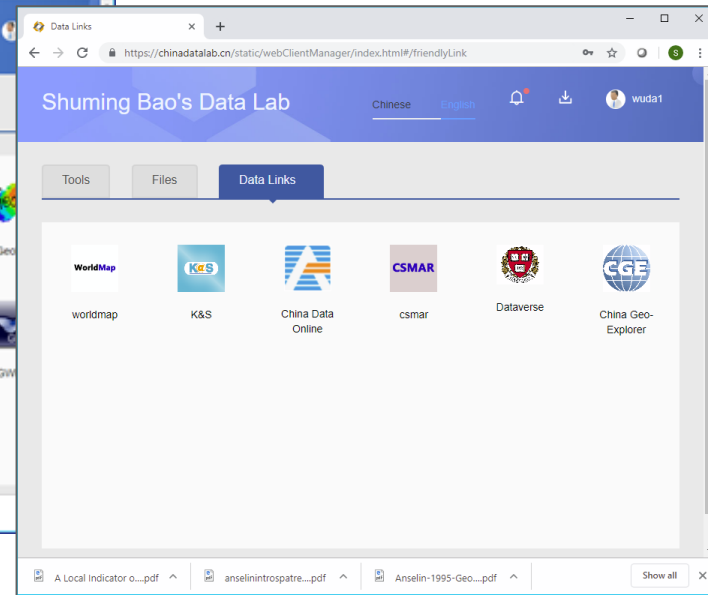
Data Center



Tool Center

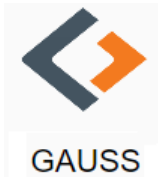


Sharing Center



China Data Lab

<http://chinadatalab.cn>



Workflow Based Data Analysis

The screenshot displays the KNIME Analytics Platform interface. The main workspace contains a complex data workflow with the following components:

- Input Data:** Three Excel Readers (XLS) for 'Membership', 'Card', and 'Conf_NA' data.
- Transformation:** 'Number To String' and 'String To Number' nodes for data type conversion.
- Filtering and Joining:** Multiple 'Row Filter' and 'Column Filter' nodes, along with 'Joiner' nodes for 'Full Join', 'Left Join', 'Right Join', and 'Exclude Left/Right'.
- Output:** Multiple 'Excel Writer (XLS)' nodes for saving filtered and joined data.

Right Panel: Description

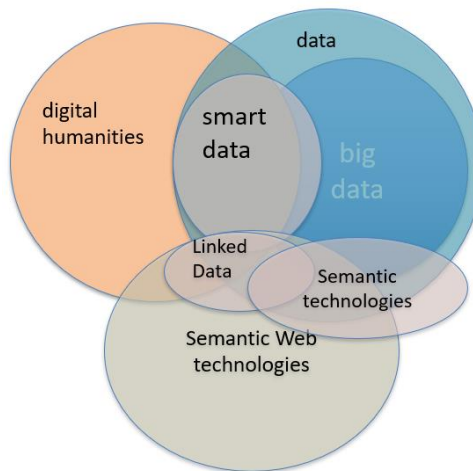
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- Tags:** No tags have been added yet.
- Links:** No links have been added yet.
- Creation Date:** 2019-11-28
- Author:** sbao

Bottom Panels:

- Outline:** A hierarchical tree view of the workflow nodes.
- NSF Directorate:** A bar chart showing the distribution of data across various directorates.
- Network Graph:** A visualization of relationships between nodes, with some nodes highlighted in black circles.
- Max-p Clustering Map:** A map of France with regions colored according to a clustering algorithm.

Case Study I: Literature Analysis with KNIME

- **Goal:** develop and demonstrate a network framework of the historical Innovation and Invention at the Liquid Crystal Institute, Kent State University (PI: Marcia Lei Zeng, et al.)



References:

- Li, H., Zeng, M., Zhang, Y., Ye, X., & Hu, T. (2017). Tackling Innovation Networks with Smart Data: A Case Study of the Liquid Crystal Institute at Kent State University. In DH.
- Zeng, M. L., Zhang, Y., Li, H., & Polyakov, S. (2015). Exploring Smart Data Approaches to the History of Innovation and Invention at Liquid Crystal Institute at Kent State University. In Digital Libraries: Providing Quality Information: The 17th International Conference on Asia-Pacific Digital Libraries, ICADL 2015, Seoul, Korea, December 9-12, 2015. Proceedings (Vol. 9469, p. 346). Springer.

Objectives

- ❑ Replicate data analysis procedures using previous scientific literature data based on workflow;
- ❑ Expanded data analysis based on publication, patent, and NSF grant data;
- ❑ Applications of workflow for research and teaching related to network analysis based on publication, patent, grant data, as well as other data.

Data Sources

▪ Publication Data

- Title
- Author
- Affiliation
- Key words
- Abstract
- Publication Date
- Journal
- Volume
- Issue
- ...

▪ Patent Data

- Title
- Inventor
- Inventor Location
- Publication Date
- Assignee
- Assignee Location
- CPC
- IPC
- USPC
- Abstract
- ...

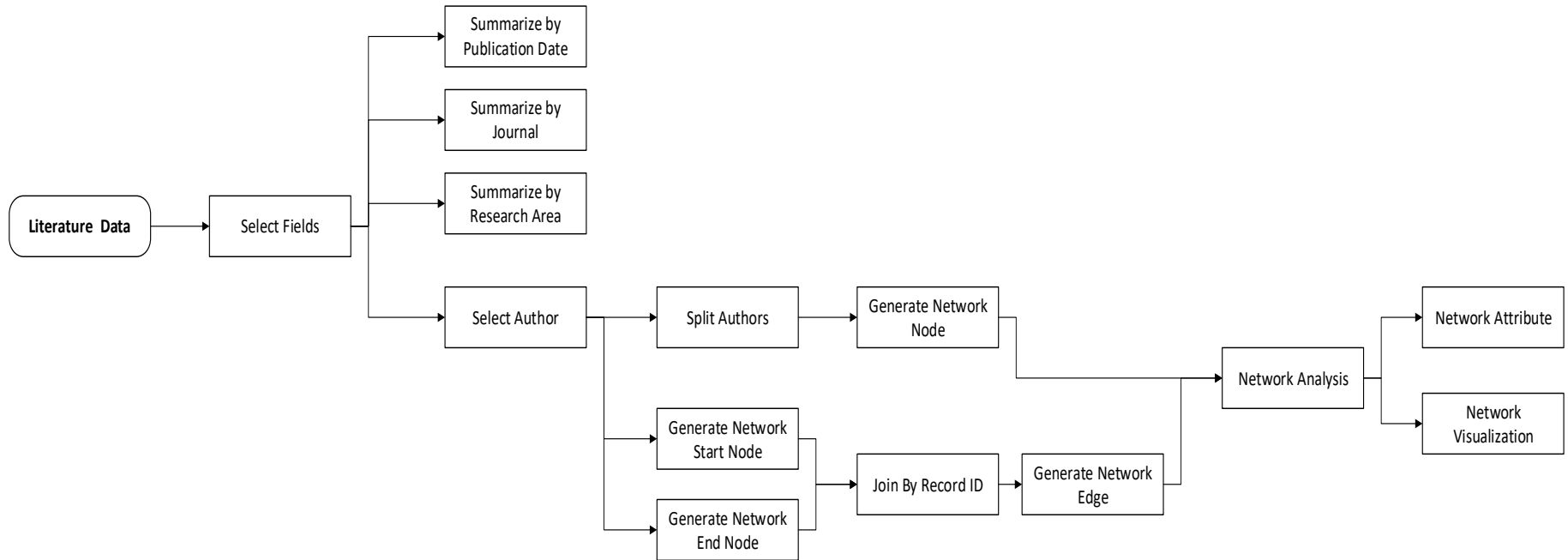
▪ Awarded Grants

- Title
- PI
- Co-PI
- Email Address
- Institution
- NSF Organization
- Start Date
- Expiration Date
- Awarded Amount
- NSF Directorate

Data Input

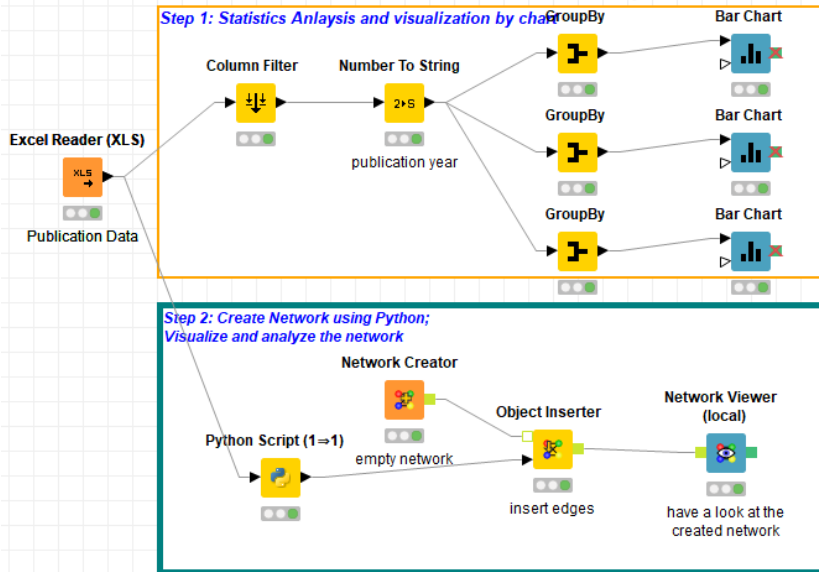
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patent.xls	.xls	ProQuest
grant.xls	.xls	NSF website

The Flowchart for Data Analysis

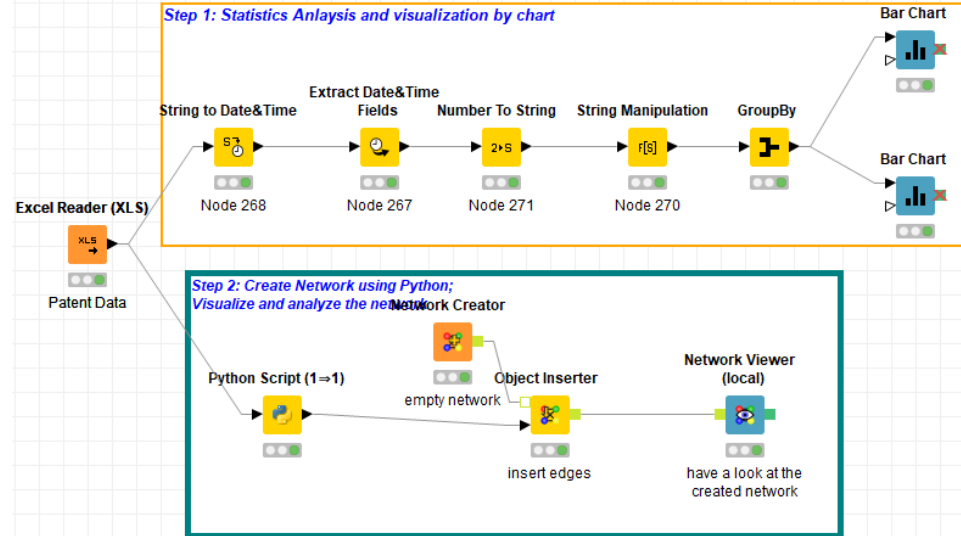


Knime Workflow for Literature Analysis

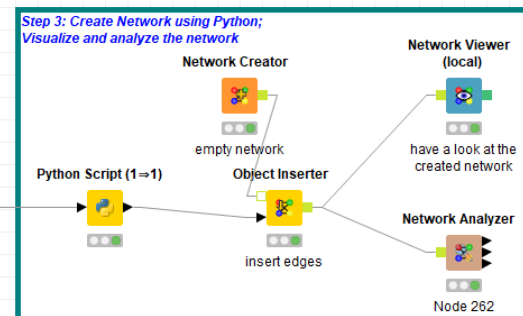
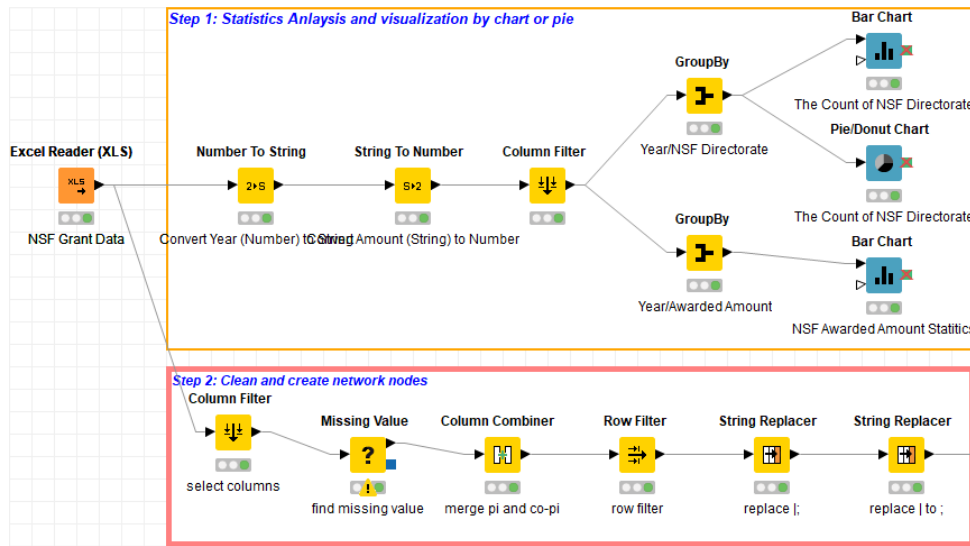
Publication Analysis



Patent Analysis

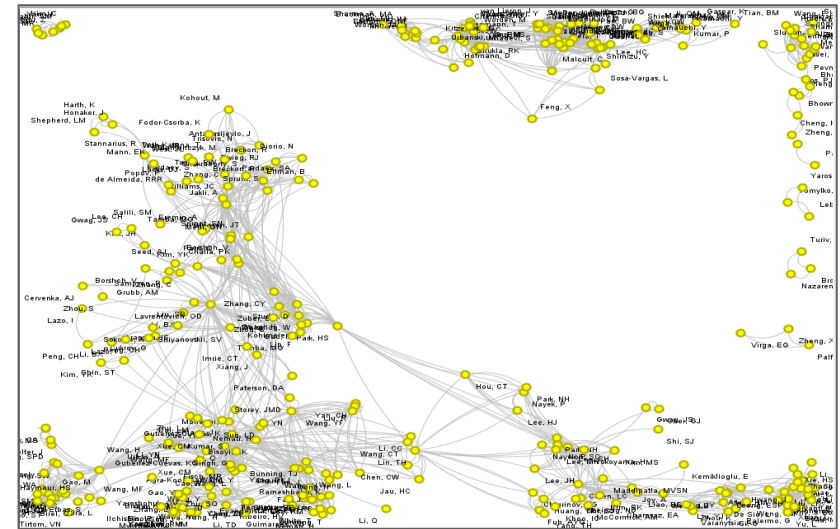
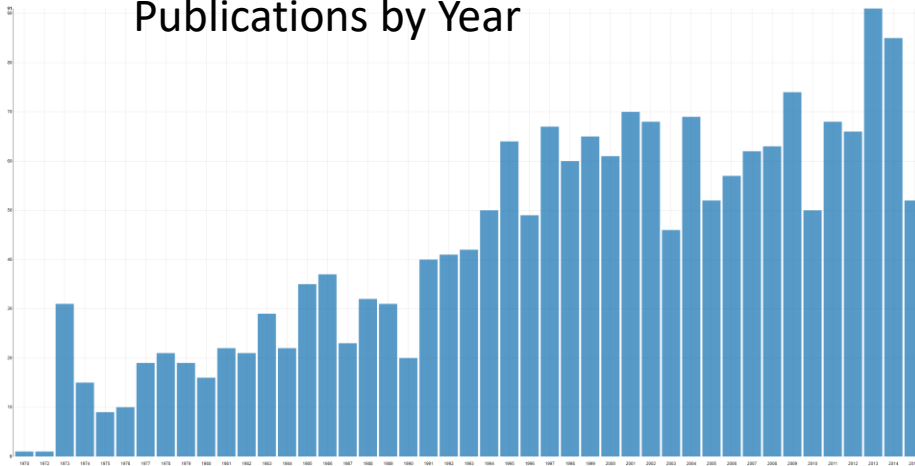


Grant Analysis



Results from Publication Analysis

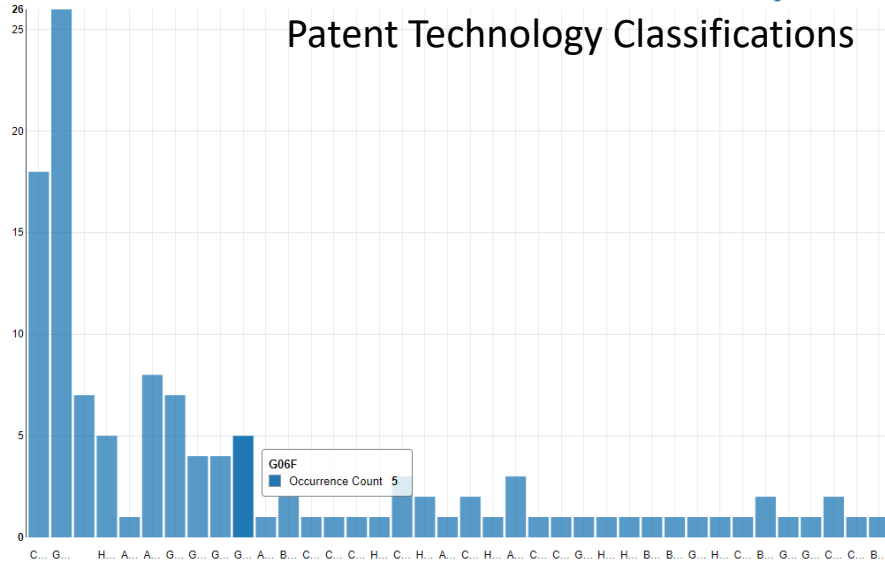
Publications by Year



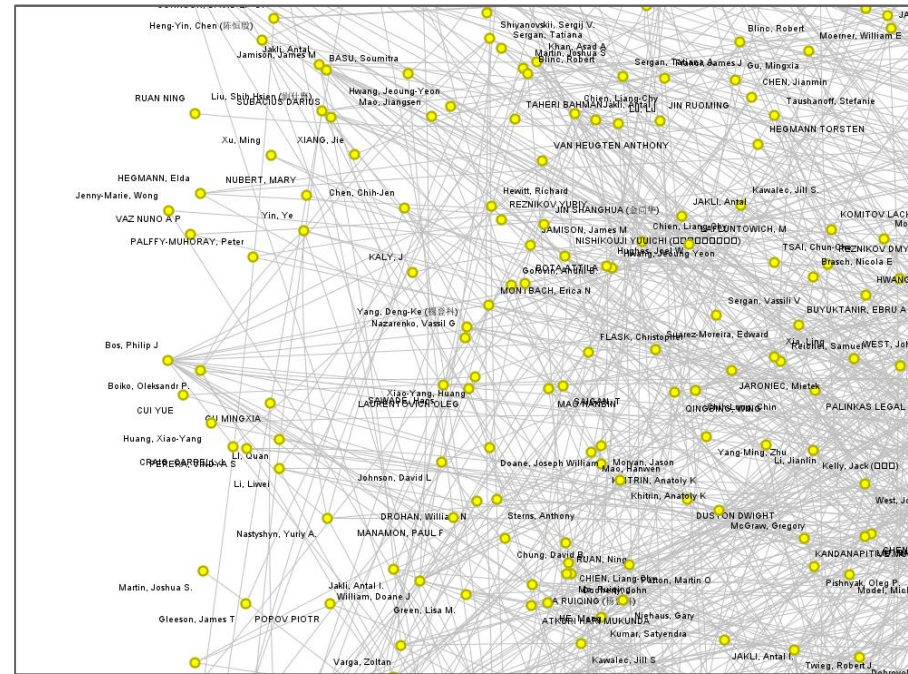
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	Feng, X	5	0.326	5	0.326	5	0.326	5	0.326	5	0.326	0.483	5	1	1	0.069	0.069	0.008									
	Wang, F	5	0.326	5	0.326	5	0.326	5	0.326	5	0.326	0.621	5	1	1	0	0	0.04									
	Sharma, A	22	1.433	22	1.433	22	1.433	22	1.433	22	1.433	0.589	22	1	0.706	0.801	0.801	0.009									
	Yao, WH	8	0.521	8	0.521	8	0.521	8	0.521	8	0.521	0.292	8	1	1	0	0	0.001									
	Wang, MF	5	0.326	5	0.326	5	0.326	5	0.326	5	0.326	0.32	5	1	0.9	0	0	0.001									
	Lu, W	9	0.586	9	0.586	9	0.586	9	0.586	9	0.586	0.49	9	1	1	0.091	0.091	0.007									
	Wang, H	4	0.261	4	0.261	4	0.261	4	0.261	4	0.261	0.32	4	1	1	0	0	0.001									
	Antanasijev...	7	0.456	7	0.456	7	0.456	7	0.456	7	0.456	0.287	7	1	1	0	0	0.001									
	Reich, R	8	0.521	8	0.521	8	0.521	8	0.521	8	0.521	0.923	8	1	1	0	0	0.1									
	Lu, L	8	0.521	8	0.521	8	0.521	8	0.521	8	0.521	0.917	8	1	1	0	0	0.1									
	Lebovka, N	2	0.13	2	0.13	2	0.13	2	0.13	2	0.13	1	2	1	1	0	0	0.5									
	Ma, J	21	1.368	21	1.368	21	1.368	21	1.368	21	1.368	0.258	21	1	0.367	0	0	0.001									
	Malgras, V	7	0.456	7	0.456	7	0.456	7	0.456	7	0.456	0.375	7	1	1	0.01	0.01	0.006									
	Park, HS	23	1.498	23	1.498	23	1.498	23	1.498	23	1.498	0.405	23	1	0.526	0	0	0.002									
	Beltrano, G	18	1.173	18	1.173	18	1.173	18	1.173	18	1.173	0.517	18	1	1	0.776	0.776	0.008									
	Kohlmeier, A	15	0.977	15	0.977	15	0.977	15	0.977	15	0.977	0.363	15	1	1	0	0	0.002									
	Sampson, P	5	0.326	5	0.326	5	0.326	5	0.326	5	0.326	0.327	5	1	1	0	0	0.001									
	Umadevi, S	8	0.521	8	0.521	8	0.521	8	0.521	8	0.521	0.497	8	1	0.571	0.079	0.079	0.008									
	Moheghi, A	2	0.13	2	0.13	2	0.13	2	0.13	2	0.13	0.286	2	1	1	0	0	0.001									

Results from Patent Analysis

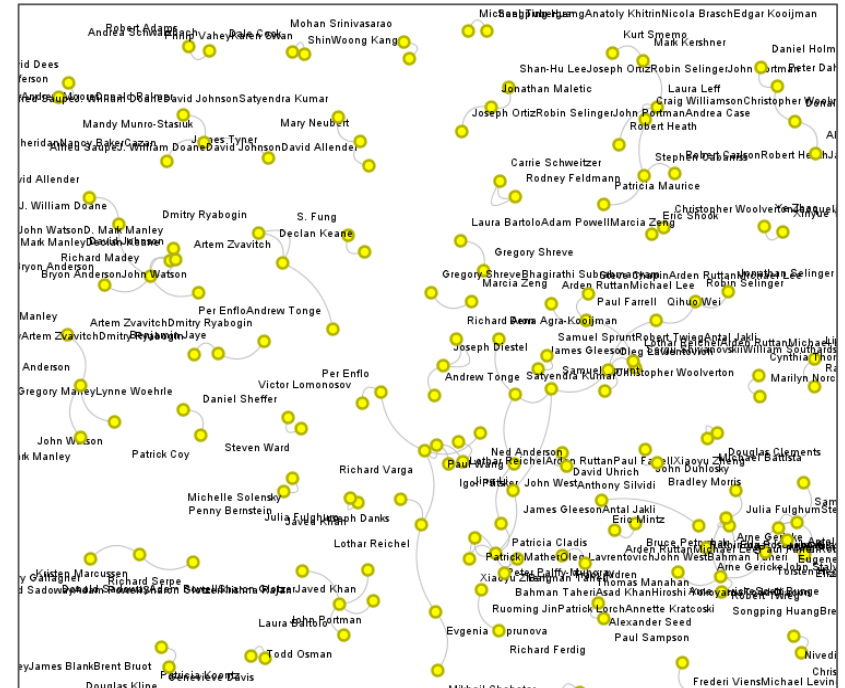
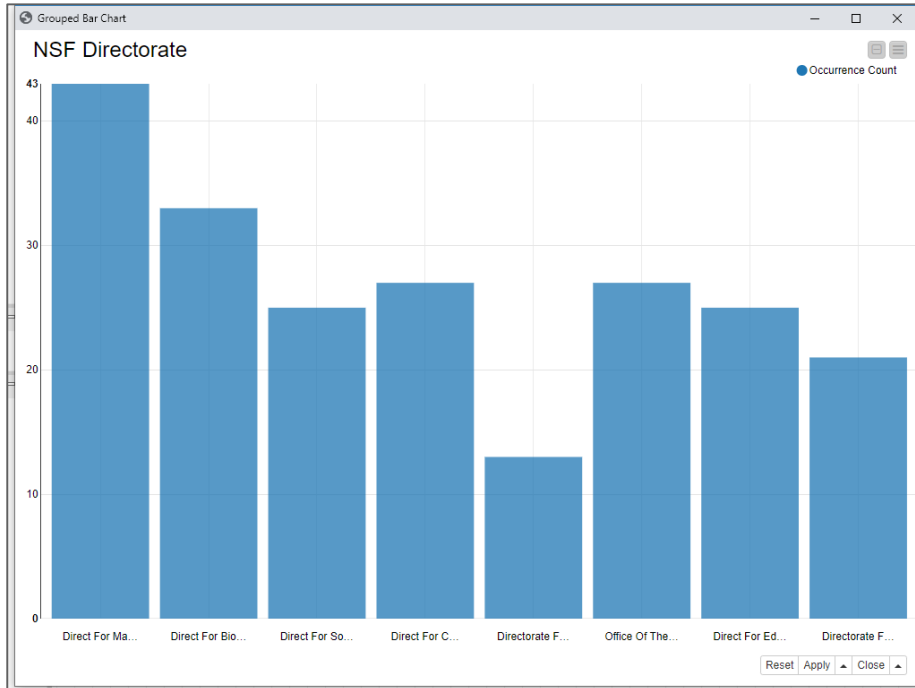
Patent Technology Classifications



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	Chao-Chiun, Liang	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	1	1	
	SHOKOUHIMEH...	5	0.428	5	0.428	5	0.428	5	0.428	5	0.428	5	0.428	5	1	1	
	Nemati, Hossein ...	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	1	1	
	Hwang, Jeoung ...	3	0.257	3	0.257	3	0.257	3	0.257	3	0.257	3	0.257	3	1	1	
	QIAN LIANGQI (...)	2	0.171	2	0.171	2	0.171	2	0.171	2	0.171	2	0.171	2	1	1	
	Soehnlen, Eric S...	8	0.686	8	0.686	8	0.686	8	0.686	8	0.686	8	0.686	8	1	1	
	Chen, Cheng	4	0.343	4	0.343	4	0.343	4	0.343	4	0.343	4	0.343	4	1	1	
	Osher, Lawrence	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	1	1	
	Nastyshyn, Yuri...	6	0.514	6	0.514	6	0.514	6	0.514	6	0.514	6	0.514	6	1	1	
	Bhowmik, Achint...	2	0.171	2	0.171	2	0.171	2	0.171	2	0.171	2	0.171	2	1	1	
	Gleeson, James T	1	0.086	1	0.086	1	0.086	1	0.086	1	0.086	1	0.086	1	1	1	
	Dobrovolsky, A...	3	0.257	3	0.257	3	0.257	3	0.257	3	0.257	3	0.257	3	1	1	
	GLEESON, Jame...	3	0.257	3	0.257	3	0.257	3	0.257	3	0.257	3	0.257	3	1	1	
	Kelly, Jack (□□□)	4	0.343	4	0.343	4	0.343	4	0.343	4	0.343	4	0.343	4	1	1	
	Li, Liwei	5	0.428	5	0.428	5	0.428	5	0.428	5	0.428	5	0.428	5	1	1	
	Palfy-Muhoray, ...	7	0.6	7	0.6	7	0.6	7	0.6	7	0.6	7	0.6	7	1	1	
	Tsai, Chen Chu (...)	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	1	1	



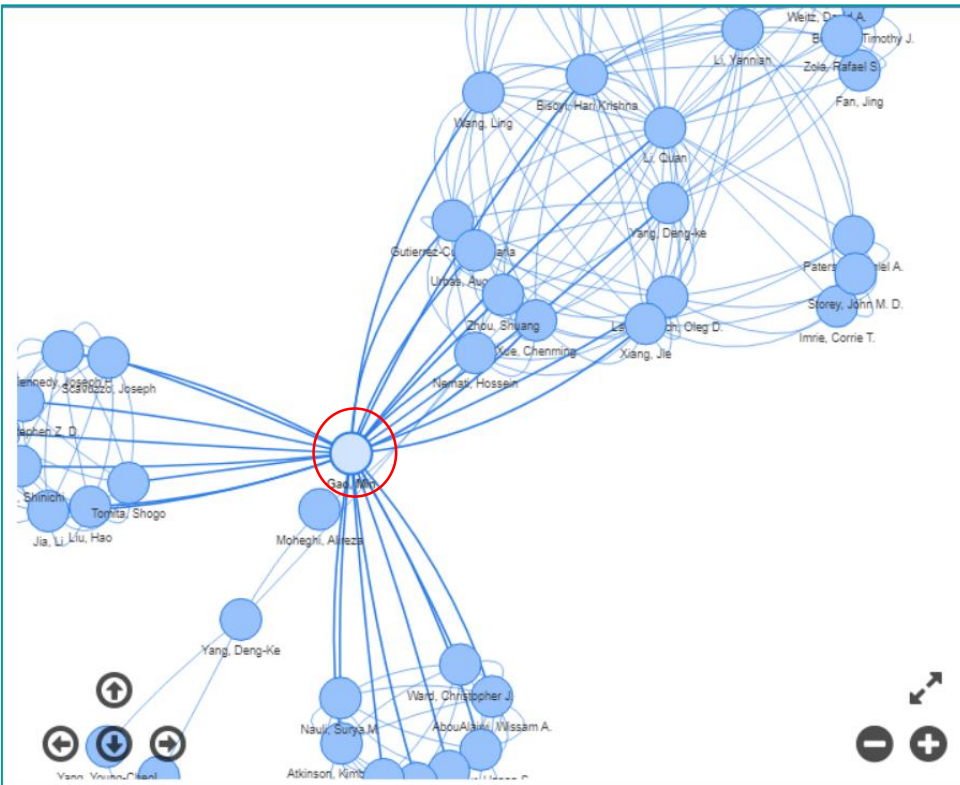
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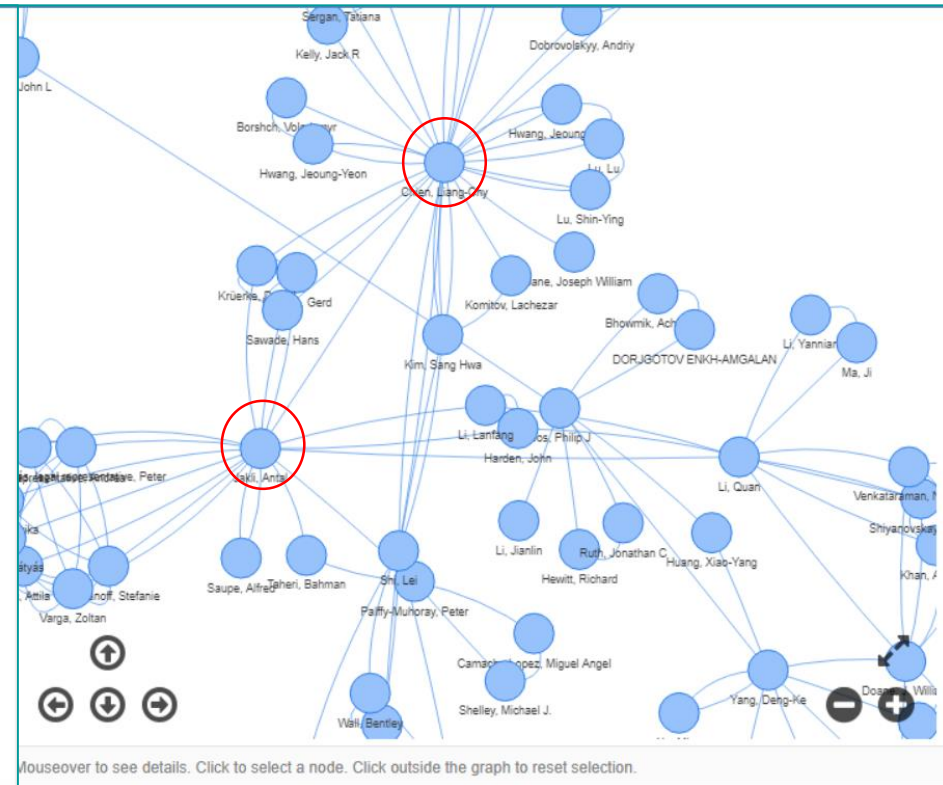
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Gerassimos Pe...	1	0.787	1	0.787	1	0.787	1	1
Xiaoyu Zheng	2	1.575	2	1.575	2	1.575	1	1
Noah FriedkinE...	1	0.787	1	0.787	1	0.787	1	1
William Kalkhoff	1	0.787	1	0.787	1	0.787	1	1
Robin Selinger	2	1.575	2	1.575	2	1.575	1	1
Paul Farrell	3	2.362	3	2.362	3	2.362	1	1
Joseph OrtizD...	1	0.787	1	0.787	1	0.787	1	1
Ben FinneyMar...	1	0.787	1	0.787	1	0.787	1	1

Network Analysis of Scholars

Authors of Publications



Participants of Grants



Case Study II: Financial Analysis with Firm Data

Going public in China: Reverse mergers versus IPOs

Aim: This study examines the decision to go public in China through an initial public offering (IPO) versus a reverse merger (RM) transaction.



Journal of Corporate Finance
Volume 58, October 2019, Pages 92-111



Going public in China: Reverse mergers versus IPOs ☆

Charles M.C. Lee ^a, Yuanyu Qu ^b, Tao Shen ^c,  

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<https://doi.org/10.1016/j.jcorpfin.2019.04.003> [Get rights and content](#)

Highlights

- We study firms' choice to go public through reverse mergers (RMs) versus initial public offerings (IPOs) in China.
- Pre-listing RM firms are larger, more profitable, and less politically-connected than pre-listing IPO firms.
- RM firms also have superior post-listing performance, both in terms of operations and stock returns.
- These results are in sharp contrast to the evidence on RMs from developed countries.

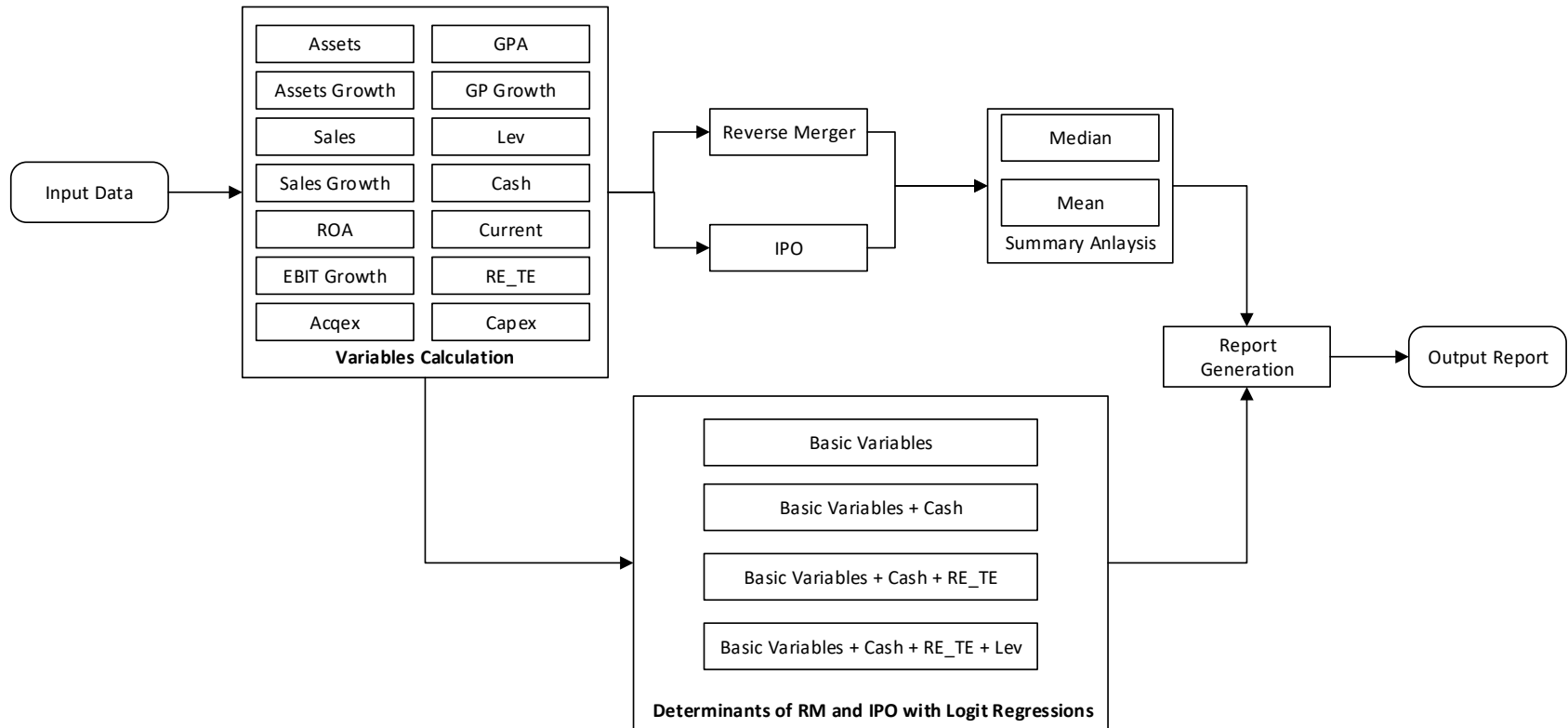
Abstract

We study firms that go public through reverse mergers (RMs) versus [initial public offerings](#) (IPOs) in China. Using a manually assembled data set, we show that pre-listing RM firms are larger, more profitable, and less politically connected than pre-listing IPO firms. Chinese RM firms also have superior post-listing performance, in terms of both operations and [stock returns](#), compared to IPOs matched on industry and size. Unlike IPOs, RM firms do not underperform the market in the long run. These results are in sharp contrast to the evidence on RMs from [developed countries](#). We trace these differences to China's stringent and potentially biased IPO policies, which appear to preclude even high-quality firms from accessing public markets.

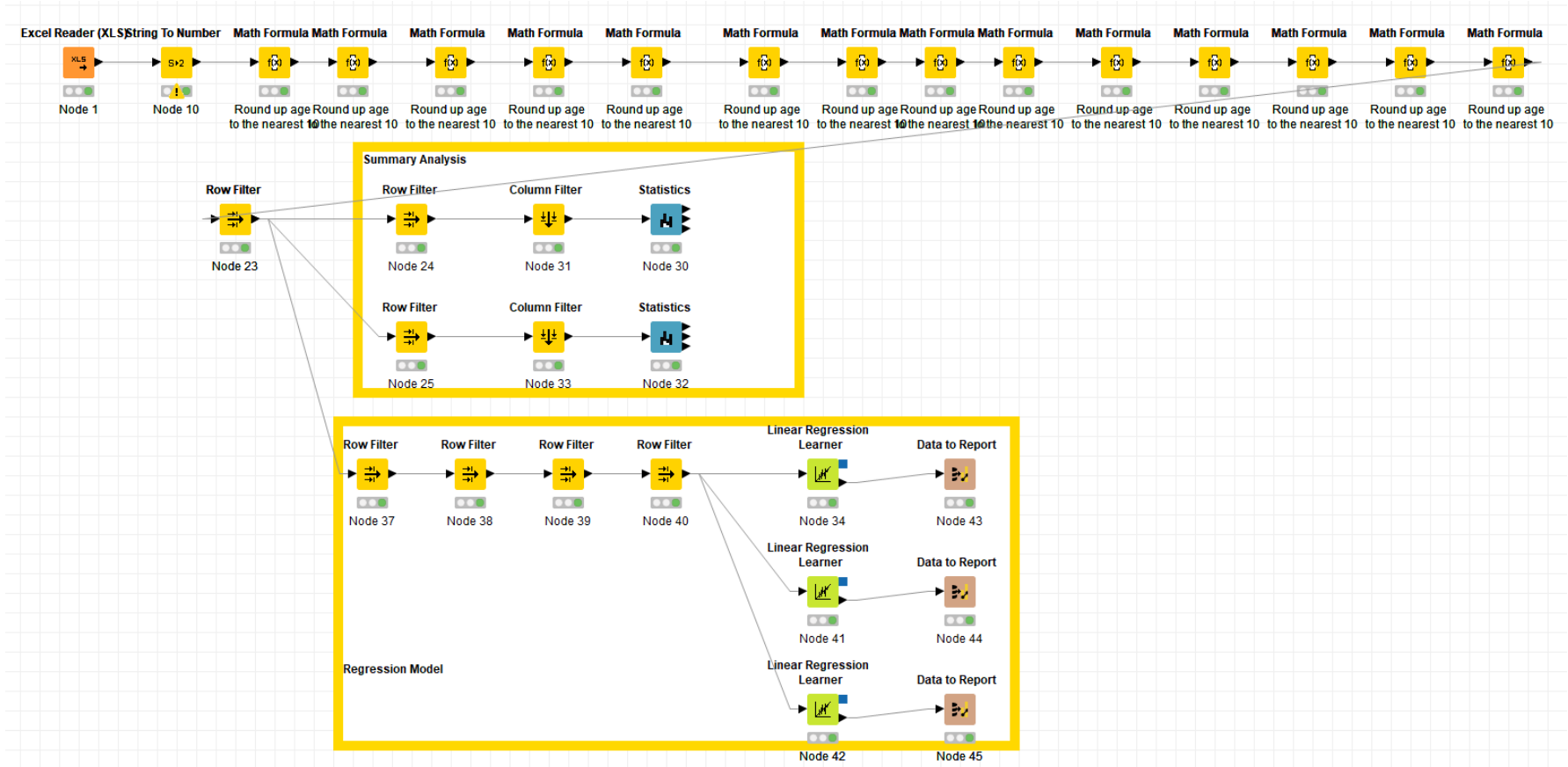
Data Sources

Name	Format	Description
IPO.xlsx	xlsx	The financial and stock returns data of listed firms are from the China Stock Market and Accounting Research (CSMAR) Database
RM.xlsx	xlsx	The data is from the iFinD database provided by Tong Hua Shun (THS), a major financial data service company in China
Firm.xlsx	xlsx	The financial information on each RM proposal from www.cninfo.com.cn , a CSRC-authorized website that archives documents and filings for listed firms

Flow Chart for Data Analysis



KNIME Workflow for Data Analysis



Results from Data Analysis

Summary Statistics of RM and IPO

Row ID	S Column	D Min	D Max	D Mean	D Std. deviation	D Variance	D Overall ...	I	I	I	I	I	I	I	Histogram
GPA	GPA	-0.007	0.638	0.162	0.141	0.02	17.024	5	0	0	0	0	0	0	
ROA	ROA	-0.157	0.42	0.085	0.099	0.01	9.094	3	0	0	0	0	0		
GP Growth	GP Growth	-627	56,679	1,260.835	7,203.23	51,886,524	132,387,667	5	0	0	0	0	0		
assets	assets	309,7	359,80	18,987	43,036,002,985	1,852,097,5	2,088,583,6	0	0	0	0	0	0		
assets gr...	assets gr...	-0.299	376.438	4.996	36.275	1,315.889	549.613	0	0	0	0	0	0		
sales	sales	12,65	57,482	5,055,5	8,239,117,930.447	67,883,064	530,827,55	5	0	0	0	0	0		
sales growth	sales gro...	-0.918	87.484	2.938	12.784	163.419	323.195	0	0	0	0	0	0		
EBIT	EBIT	-476	10,705	805,421	1,450,585,376.419	2,104,197,9	86,180,152	3	0	0	0	0	0		
lev	lev	0.045	0.956	0.492	0.235	0.055	54.115	0	0	0	0	0	0		

Results from Logit Regressions

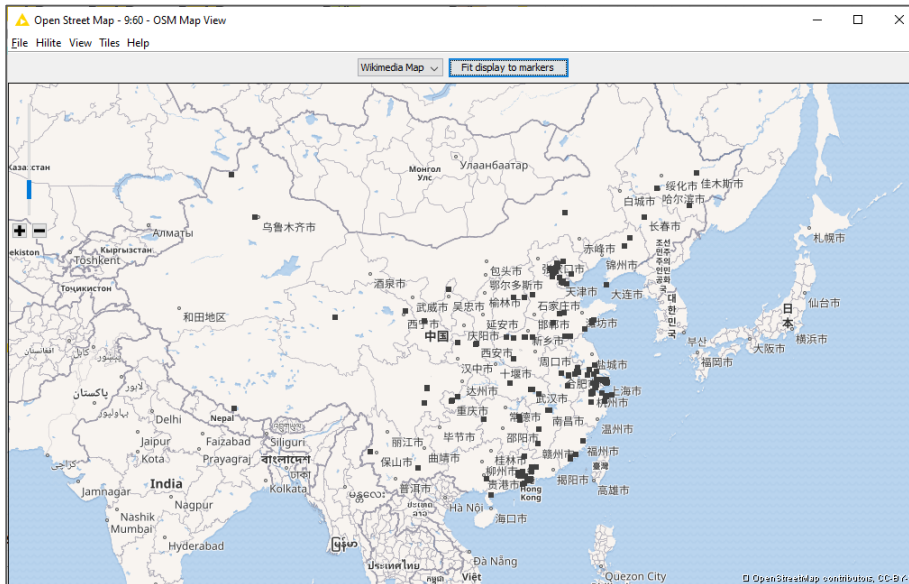
S Variable	D Coeff.	D Std. Err.	D t-value	D P> t
GPA	-0.197	0.117	-1.687	0.092
ROA	0.624	0.19	3.287	0.001
assets	0	0	1.458	0.145
assets growth	-0	0.001	-0.078	0.938
sales	0	0	0.12	0.905
sales growth	0.012	0.002	5.151	0
EBIT	-0	0	-0.792	0.428
current	-0.029	0.085	-0.336	0.737
re_te	0.018	0.005	3.762	0
acqex	-0	0	-0.604	0.546
capex	0	0	2.998	0.003
net payout	-0	0	-1.294	0.196
Intercept	0.08	0.02	4.044	0

S Variable	D Coeff.	D Std. Err.	D t-value	D P> t
GPA	-0.164	0.117	-1.403	0.161
ROA	0.67	0.19	3.519	0
assets	0	0	0.868	0.385
assets growth	0	0.001	0.056	0.955
sales	-0	0	-0.176	0.86
sales growth	0.012	0.002	4.927	0
EBIT	-0	0	-0.767	0.443
lev	0.129	0.052	2.477	0.013
current	0.014	0.087	0.159	0.873
re_te	0.018	0.005	3.707	0
acqex	-0	0	-0.445	0.657
capex	0	0	2.677	0.008
net payout	-0	0	-0.635	0.526
AO	0	0	0.186	0.852
Intercept	0.011	0.034	0.31	0.757

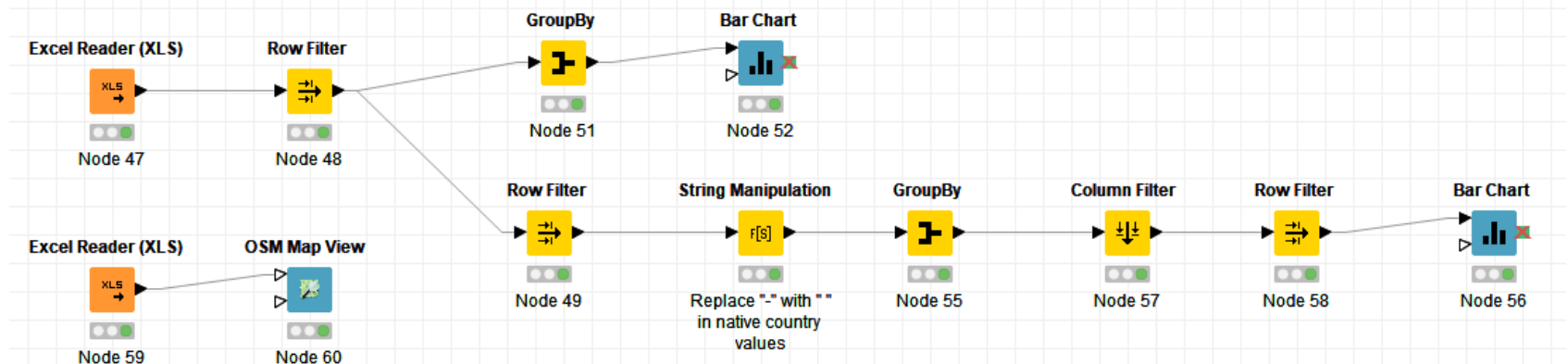
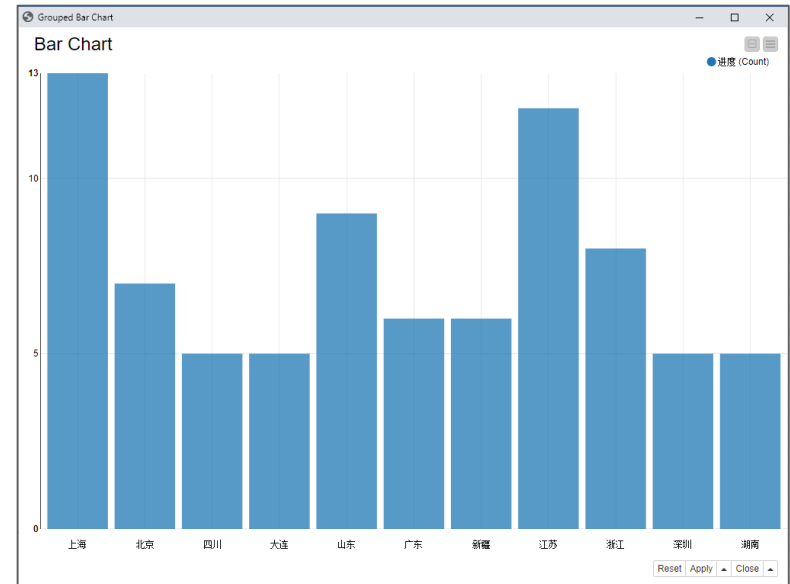
保留三位小数

Results from the Expanded Analysis

Spatial Distribution of RM Firms

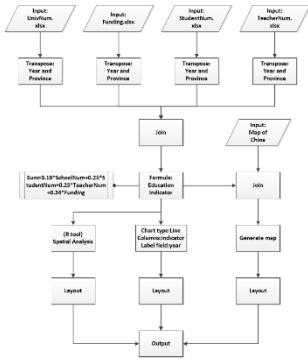


Number of RM Firms by Province

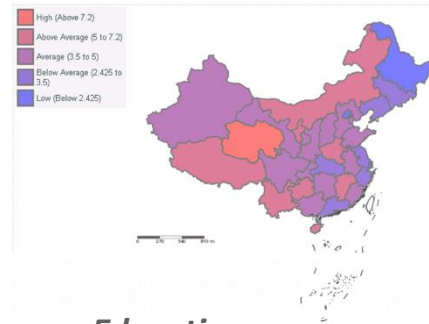


Replicable, Reproducible and Expandable

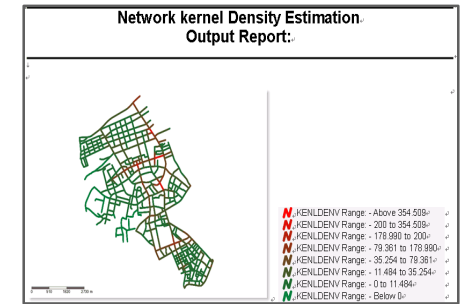
□ CDL Platform for Workflow Data Analysis



Environment



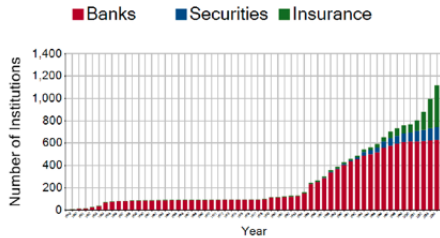
Education



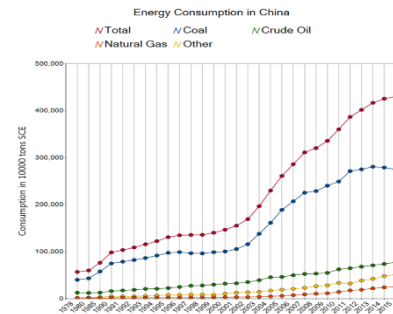
Transportation



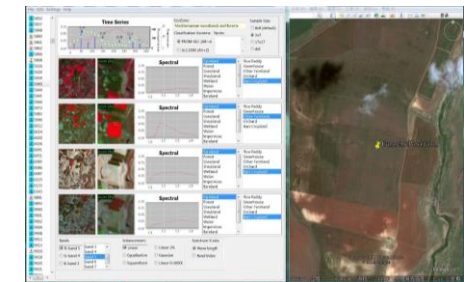
Total Numbers of Financial Institutions in Guangdong (1949 - 2004)



Economics

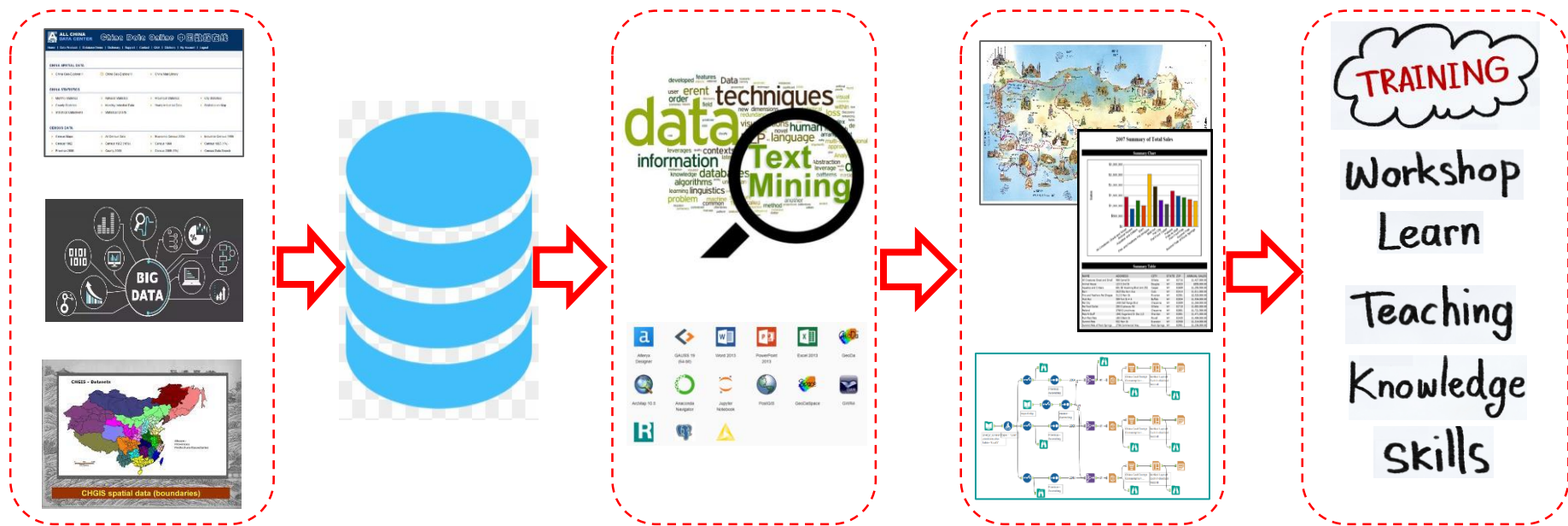


Energy



Land Use

China Data Lab for Research and Teaching



Web Sites



China Data Lab

<http://chinadatalab.net>

China Data Online

<http://china-data-online.com>

China Data Lab on the Cloud

<http://chinadatalab.cn>

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